

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: September 23, 2000, 08:48:24 : Search time 378.27 Seconds
(without alignments)
94.582 Million cell updates/sec

Title: US-09-428-674-11

Perfect score: 143
Sequence: 1 gtggcctactgtactgtccta.....aattgtttataaattgttt 143

Scoring table: OLIGO_NUC
Gapop 60.0, Gapept 60.0

Searched: 311585 seqs, 125096042 residues

Word size: 15

Total number of hits satisfying chosen parameters: 88

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database: N.Geneseq.36:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	21	14.7	84 1 T21573	Human gene signatu
2	17	11.9	4121 1 V74626	Staphylococcus aur
3	17	11.9	5790 1 X24464	Bovine myostatin g
4	17	11.9	6029 1 X23824	Bacillus sp. GUS 9
5	16	11.2	200 1 Q77245	Human genome fragm
6	16	11.2	211 1 T19250	Human gene signatu
7	16	11.2	226 1 T21611	Human gene signatu
8	16	11.2	682 1 V69554	U. florida type 1
9	16	11.2	800 1 X39692	Gastric cancer ass
10	16	11.2	1689 1 Q65824	AMEP NPH-1 gene.
11	16	11.2	2132 1 V06392	B. thuringiensis 1
12	16	11.2	2834 1 T61896	Human 14-3-3 zeta
13	16	11.2	3073 1 T014635	Clone associated w
14	16	11.2	3073 1 T34371	Plasmodium falciparum
15	16	11.2	8457 1 Q66797	AMEP spheroidin g
16	16	11.2	110000 1 V21209	Methanococcus jann
17	16	11.2	110000 1 X20248	Continuation (9 of
18	15	10.5	132 1 T19753	Human gene signatu
19	15	10.5	192 1 Q85552	DNA probe 58 detec
20	15	10.5	326 1 Q60587	Human brain Expre
21	15	10.5	343 1 T25391	Human gene signatu
22	15	10.5	607 1 V75299	Staphylococcus aur
23	15	10.5	750 1 V53475	DNA encoding a Sta
24	15	10.5	885 1 N20095	Sequence of leukoc
25	15	10.5	885 1 N20010	Hybrid human leuko
26	15	10.5	888 1 Q46120	E. coli 16S rRNA f
27	15	10.5	937 1 N40112	Sequence of the cd
28	15	10.5	937 1 N30105	Sequence on recom
29	15	10.5	961 1 N40107	Sequence of the cd
30	15	10.5	961 1 N30100	Sequence on recom
31	15	10.5	1177 1 X08427	Lap2 promoter seq
32	15	10.5	1298 1 V32590	Schwannomin-blidin
33	15	10.5	1498 1 Q13005	16S rRNA gene corr

C 34	15	10.5	1540 1 N91514	Escherichia coli 1
C 35	15	10.5	1542 1 Q46119	E. coli 16S rRNA f
C 36	15	10.5	1542 1 T18759	E. coli 16S riboso
C 37	15	10.5	1542 1 T29140	rRNA gene (rse) f
C 38	15	10.5	1545 1 Q49060	16S rRNA gene of E
C 39	15	10.5	1743 1 T85939	Shigella flexneri
C 40	15	10.5	1866 1 V53502	DNA encoding a Sta
C 41	15	10.5	2218 1 N90787	Clone L19 of Brass
C 42	15	10.5	2224 1 T40700	N. benthamiana phy
C 43	15	10.5	2273 1 Q04339	Aquaticin I gene
C 44	15	10.5	2274 1 Q12838	Aquaticin I coding
C 45	15	10.5	2274 1 Q75859	Aquaticin I gene.

ALIGNMENTS

RESULT 1	T21573	121573 standard; CDNA to mRNA; 84 BP.
AC	T21573;	03-AUG-1996 (first entry)
DE	Human gene signature HUMGS02953.	
KW	Gene signature; messenger RNA; mRNA; relative abundance; frequency;	
KW	human; cloning; mapping; non-biased library; diagnosis; detection;	
KW	cell typing; abnormal cell function; ss.	
OS	Homo sapiens.	
PN	WO9514772-A1.	
PD	01-JUN-1995.	
PF	11-NOV-1994; J01916.	
PR	12-NOV-1993; JP-355504.	
PA	(MATS/) MATSUBARA K.	
PI	(OKUB/) OKUBO K.	
DR	WPI: 95-206931/27.	
PT	Identifying gene signatures in 3'-directed human cDNA library - e.g.	
PT	for diagnosis of abnormal cell function, by preparing cDNA that	
PT	reflects relative abundance of corresp. mRNA in specific human	
PT	tissues	
PS	Claim 1: Page 916; 2245pp; Japanese.	
CC	A single-stranded DNA (or its complementary strand or the corresp.	
CC	double-stranded DNA) which comprises one of the 7837 "GS" sequences	
CC	given in T19001-T26837 and which is able to hybridise to part of	
CC	human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)	
CC	sequences were obtained from 3'-directed cDNA libraries prepared	
CC	from various human tissues; synthesis of cDNA was initiated from the	
CC	3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-	
CC	untranslated sequence is unique to a particular mRNA species, almost	
CC	all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library	
CC	is constructed so as to reflect accurately the relative abundance of	
CC	different mRNAs in the particular tissue from which it was derived.	
CC	The appearance frequency of a given GS in a cDNA library can be	
CC	determined (esp. using primers and probes derived from the GS	
CC	sequences) as a means of diagnosing abnormal cell function or for	
CC	recognising different cell types.	
SQ	Sequence 84 BP; 28 A; 16 C; 19 G; 21 T;	
Query Match	14.7%; Score 21; DB 1; Length 84;	
Best local Similarity	100.0%; Pred. No. 0.023;	
Matches	21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	112 aaaaatgaataaattgttt 132	
DB	53 AAAAATTAATTAATTTGTTT 73	
RESULT 2	V74626	V74626 standard; DNA; 4121 BP.
AC	V74626;	16-MAR-1999 (first entry)
DE	Staphylococcus aureus cortig seq ID #315.	

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/rpt_family="Alu"
repeat_region 16666..17036
/rpt_family="MALR"
repeat_region 17037..17102
/rpt_family="L1"
repeat_region 17103..17398
/rpt_family="Alu"
repeat_region 17399..17739
/rpt_family="L1"
repeat_region 17740..17889
/rpt_family="Alu"
repeat_region 17890..18198
/rpt_family="Alu"
repeat_region 18199..18335
/rpt_family="Alu"
repeat_region 18336..18441
/rpt_family="L1"
repeat_region 18446..18459
/rpt_family="Alu"
repeat_region 18460..18482
/rpt_family="Alu"
repeat_region 18483..18725
/rpt_family="TAA/n"
repeat_region 19043..19335
/rpt_family="Alu"
repeat_region 19358..19518
/rpt_family="MIR"
repeat_region 20026..20068
/rpt_family="L2"
repeat_region 20129..20174
/rpt_family="AT-rich"
repeat_region 20219..20529
/rpt_family="Alu"
repeat_region 20702..20764
/rpt_family="AT-rich"
misc_feature 20991..21066
/note="match to EST R85763 (NID:g944169) yq23c06.s1"
repeat_region 21235..21527
/rpt_family="Alu"
repeat_region 21997..22102
/rpt_family="L2"
repeat_region 23226..23370
/rpt_family="MIR"
misc_feature 23461..23932
/note="match to EST AA52665 (NID:g2264593) n168d12.s1"
misc_feature 23656..23913
/note="match to EST AA228421 (NID:g1849952) nc39b09.r1"
misc_feature 23702..23890
/note="similar to Mus musculus EST A0035453 (NID:g3718456)"
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misc_feature 23702..23890
/note="similar to Mus musculus EST A0035453 (NID:g3718456)"
Query Match 21.4% Score 45: DB 39: Length 83928;
Best Local Similarity 100.0% Pred. No. 1.2e-15;
Matches 45: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
```

```
REFERENCE 1 (bases 1 to 99487)
AUTHORS Sams,S.
TITLE Direct Submission
JOURNAL Submitted (18-JAN-2000) Sanger Centre, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquary@sanger.ac.uk
COMMENT On Feb 16, 2000 this sequence version replaced g1:6689798.
IMPORTANT: This sequence is unfinished and does not necessarily represent the correct sequence. Work on the sequence is in progress and the release of this data is based on the understanding that the sequence may change as work continues. The sequence may be contaminated with foreign sequence from E.coli, yeast, vector, phage etc. Order of segments is not known: 800 n's separate segments. Contig_ID: 0017 Length: 1162bp
Contig_ID: 0027 Length: 13765bp
Contig_ID: 00138 Length: 1384bp
Contig_ID: 00709 Length: 42612bp
Contig_ID: 00828 Length: 1082bp
Contig_ID: 00896 Length: 5150bp
Contig_ID: 00906 Length: 1467bp
Contig_ID: 00963 Length: 27265bp.
* NOTE: This is a 'working draft' sequence. It currently consists of 8 contigs. The type order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as * runs of N, but the exact sizes of the gaps are unknown. * This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.
* 1 1162: contig of 1162 bp in length
* 1163 1962: gap of 800 bp
* 1963 15727: contig of 13765 bp in length
* 15728 16527: gap of 800 bp
* 16528 17811: contig of 1384 bp in length
* 17912 18741: gap of 800 bp
* 18712 61323: contig of 42612 bp in length
* 61324 62123: gap of 800 bp
* 62124 63205: contig of 1082 bp in length
* 63206 64005: gap of 800 bp
* 64006 69155: contig of 5150 bp in length
* 69156 69955: gap of 800 bp
* 69956 71422: contig of 1467 bp in length
* 71423 72223: gap of 800 bp
* 72223 99487: contig of 27265 bp in length.
FEATURES
Location/Qualifiers
1..99487
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="6"
/clone="RP3-477823"
/clone_id="RPCL3"
BASE COUNT 26800 a 18047 c 17863 g 31206 t 5601 others
ORIGIN
Query Match 21.4% Score 45: DB 32: Length 99487;
Best Local Similarity 100.0% Pred. No. 1.2e-15;
Matches 45: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
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```
RESULT 10
LOCUS AL136180 99487 bp DNA HTG 01-FEB-2000
DEFINITION Homo sapiens chromosome 6 clone RP3-477823, *** SEQUENCING IN
PROGRESS ***; 8 unordered pieces.
ACCESSION AL136180.1 GI:6982309
VERSION AL136180.1 GI:6982309
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE human.
ORGANISM Homo sapiens
```

```
RESULT 11
LOCUS AC004977 106474 bp DNA HTG 12-JUN-1998
DEFINITION Homo sapiens clone D1152C17, *** SEQUENCING IN PROGRESS ***; 1
unordered pieces.
ACCESSION AC004977
VERSION AC004977.1 GI:3213020
```

KEYWORDS HTG; HTGS_PHASE1.
SOURCE human.
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
AUTHORS Eutheria; Primates; Catarrhini; Homidae; Homo.
TITLE 1 (bases 1 to 106474)
JOURNAL Waterston, R.H.
REFERENCE The sequence of Homo sapiens clone
AUTHORS Unpublished
TITLE 2 (bases 1 to 106474)
JOURNAL Waterston, R.H.
REFERENCE Direct Submission
TITLE Submitted (12-JUN-1998) Genome Sequencing Center, Washington
JOURNAL University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA

COMMENT * NOTE: This is a 'working draft' sequence. It currently
* consists of 1 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

FEATURES
1 106474: contig of 106474 bp in length.
Location/Qualifiers
1..106474
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="DJ1152C17"

BASE COUNT 28957 a 22910 c 23777 g 30830 t
ORIGIN

Query Match 21.4%; Score 45; DB 41; Length 106474;
Best Local Similarity 100.0%; Pied. No. 1.2e-15;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 126 cccacctaagctcccaagtcgtggttcagcgacagccac 170
|||||
Db 73539 CCCACCTAAGCTCCCAAGTGTGGATACAGCATGACCCAC 73583

RESULT 12
LOCUS HSJ635E18 117859 bp DNA HTG 20-APR-2000
DEFINITION Homo sapiens chromosome 1 clone RP4-635E18 map p36.11-36.37.***
ACCESSION AL109811.21 GI:76357714
VERSION AL109811
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE human.
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
TITLE 1 (bases 1 to 117859)
JOURNAL Wallis, J.
REFERENCE Direct Submission
TITLE Submitted (20-APR-2000) Sanger Centre, Hinxton, Cambridgeshire,
CB10 1SQ, UK. E-mail enquiries: humquery@sanger.ac.uk
requests: clonerrequests@sanger.ac.uk
On Apr 22, 2000 this sequence version replaced gi:7242677.
COMMENT .. Genome Center
Center: Sanger Centre
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: humquery@sanger.ac.uk
Project Information
Center project name: d635E18
Summary Statistics
Assembly program: XGAP4; Version 4.5
Sequencing vector: M13; M77815; 14% of reads
Sequencing vector: plasmid; 108752; 85% of reads
Chemistry: dye-terminator ABI; 1% of reads

Chemistry: Dye-terminator Big Dye; 94% of reads
Chemistry: Dye-terminator-amersham; 4% of reads
Consensus quality: 112388 bases at least Q40
Consensus quality: 113891 bases at least Q30
Consensus quality: 114841 bases at least Q20
Insert size: 116859; sum-of-contigs
Insert size: 123727; 14.0% error; agarose-fp
Quality coverage: 5.57x in Q20 bases; sum-of-contigs quality
coverage: 5.26x in Q20 bases; agarose-fp

* NOTE: This is a 'working draft' sequence. It currently * consists
* of 11 contigs. The true order of the pieces is * not known and
* their order in this sequence record is * arbitrary. Where the
* contigs adjacent to the vector can * be identified, they are
* labelled with 'clone.end' in the * feature table. Some order and
* orientation information * can tentatively be deduced from paired
* sequencing reads * which have been identified to span the gap
* between two * contigs. These are labelled as part of the same *
* 'fragment_chain', and the order and relative orientation * of the
* pieces within a 'fragment_chain' is reflected in * this file. Gaps
* between the contigs are represented as * runs of N, but the exact
* sizes of the gaps are unknown. * This record will be updated with
* the finished sequence as * soon as it is available and the
* accession number will be * preserved.

FEATURES
1 55698 contig of 55698 bp in length
* 55799 72183 contig of 16385 bp in length; fragment_chain 1
* 72284 73838 contig of 1555 bp in length; fragment_chain 1 *
* 73839 75462 contig of 1524 bp in length
* 75563 76627 contig of 1365 bp in length
* 77028 78261 contig of 1234 bp in length
* 78362 79923 contig of 1562 bp in length
* 80024 81095 contig of 1072 bp in length
* 81196 112651 contig of 1456 bp in length; fragment_chain 2
* 112752 115113 contig of 2362 bp in length; fragment_chain 2 *
* 115214 117859 contig of 2646 bp in length; fragment_chain 2 *
* NOTE: This is a 'working draft' sequence
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

FEATURES
1..117859
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="1"
/map="p36.11-36.37"
/clone="RP4-635E18"
/clone_id="RPCT-4"
1..55698
/note="assembly-fragment:00832
clone_end:SP6
vector_side:left"
55799..72183
/note="assembly-fragment:02428
fragment_chain:1"
72284..73838
/note="assembly-fragment:02464
fragment_chain:1"
73839..75462
/note="assembly-fragment:00023"
75563..76627
/note="assembly-fragment:00489"
77028..78261
/note="assembly-fragment:00638"
78362..79923
/note="assembly-fragment:00755"
80024..81095
/note="assembly-fragment:01032"
81196..112651
/note="assembly-fragment:02380
fragment_chain:2"
112752..115113
/note="assembly-fragment:02462
fragment_chain:2"

117: gb-ss813: *
118: gb-ss814: *
119: gb-ss815: *
120: gb-ss816: *
121: gb-ss817: *
122: gb-ss818: *
123: gb-ss819: *
124: gb-ss820: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	74	16.3	441	22	AA157818	AA157818 z035h07.s
2	71	15.7	417	21	AA099427	AA099427 z179g10.s
3	71	15.7	431	20	AA052890	AA052890 z171e08.s
4	71	15.7	439	21	AA133403	AA133403 z028e05.s
5	71	15.7	447	20	AA055663	AA055663 z175f05.s
6	70	15.5	333	27	AA156374	AA156374 n159g03.s
7	70	15.5	435	21	AA135390	AA135390 z028b04.s
8	69	15.2	501	62	AA007800	AA007800 w03g11.x
9	65	14.3	333	93	AA0045412	AA0045412 RPrC11.1-32
10	65	14.3	431	35	AA092628	AA092628 g435c12.x
11	65	14.3	431	35	AA134462	AA134462 DKR2P547J
12	63	13.9	136	33	AA091933	AA091933 os99b03.s
13	62	13.7	401	41	AA1584112	AA1584112 ts13h03.x
14	61	13.5	439	20	AA034378	AA034378 zK20C10.s
15	59	13.0	176	26	AA419145	AA419145 zV34h08.s
16	59	13.0	289	31	AA807651	AA807651 nX08C07.s
17	59	13.0	292	23	AA243224	AA243224 z125g06.s
18	59	13.0	331	23	AA24589	AA24589 z171h05.s
19	59	13.0	333	22	AA053427	AA053427 z171h06.s
20	59	13.0	339	22	AA219559	AA219559 zQ99C04.s
21	58	13.0	569	22	AA216639	AA216639 zQ99f07.s
22	58	12.8	184	23	AA250803	AA250803 zS06f12.s
23	58	12.8	288	31	AA832265	AA832265 oc91f07.s
24	58	12.8	420	26	AA418333	AA418333 zV96C05.x
25	58	12.8	437	37	AA1242047	AA1242047 qh81C06.x
26	57	12.6	413	30	W02703	W02703 zc64d08.s1
27	57	12.6	553	37	AA264351	AA264351 q109e06.x
28	56	12.4	298	26	AA424412	AA424412 zV82g12.s
29	56	12.4	426	79	AA665275	AA665275 hJ02d08.x
30	55	12.1	144	27	AA478483	AA478483 zX16b08.s
31	55	12.1	379	95	AA028587	AA028587 RPrC11.1-63
32	55	12.1	405	88	AA028587	AA028587 RPrC11.1-63
33	55	12.1	423	89	AA028587	AA028587 RPrC11.1-63
34	55	12.1	430	37	AA1274932	AA1274932 q149d04.x
35	55	12.1	445	30	AA099427	AA099427 z179g10.s
36	55	12.1	513	33	AA099427	AA099427 z179g10.s
37	55	12.1	527	27	AA479719	AA479719 zU43h04.s
38	55	12.1	529	106	AA0586372	AA0586372 RPrC11.1-4
39	54	11.9	392	90	AA0586372	AA0586372 RPrC11.1-4
40	54	11.9	378	85	AA0586372	AA0586372 RPrC11.1-4
41	54	11.9	379	90	AA0586372	AA0586372 RPrC11.1-4
42	54	11.9	380	79	AA0586372	AA0586372 RPrC11.1-4
43	54	11.9	380	79	AA0586372	AA0586372 RPrC11.1-4
44	54	11.9	380	79	AA0586372	AA0586372 RPrC11.1-4
45	53	11.7	191	22	AA204919	AA204919 zG62h07.s

ALIGNMENTS

RESULT 1
LOCUS AA157818/c
DEFINITION AA157818 441 bp mRNA
z035h07.s1 Striatum colon (#937204) Homo sapiens CDNA clone
IMAGE:588925 3' similar to contains LTR7.13 LTR7 repetitive element

ACCESSION AA157818
VERSION AA157818.1 GI:1732647
KEYWORDS EST
SOURCE human
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 441)
AUTHORS Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chapell, B., Chissey, S., Dietrich, N., Dubugue, T., Favell, A., Gish, N., Hawkins, M., Hulman, M., Kucaba, T., Lacy, M., Le, N., Mardis, E., Moore, B., Morris, M., Parsons, J., Prange, C., Rife, L., Rohlfing, T., Schellenberg, K., Soares, M.B., Tan, F., Thierry-Mieg, J., Trevisan, E., Underwood, K., Wohlmann, P., Waterston, R., Wilson, R. and Marra, M.

TITLE Generation and analysis of 280,000 human expressed sequence tags
JOURNAL Genome Res. 6 (9), 807-828 (1996)
MEDLINE 97044478
COMMENT Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Seq primer: -40M13 fwd. from Amersham
High quality sequence stop: 297.

FEATURES
source location/Qualifiers
1..441
/organism="Homo sapiens"
/db_xref="GDB:462665"
/db_xref="taxon:9606"
/clone="IMAGE:588925"
/clone_lib="Striatum colon (#937204)"
/tissue_type="tumor"
/cell_line="T84 carcinoma cell line"
/lab_host="SOLR cells (kanamycin resistant)"
/note="Organ: colon; Vector: pBluescript SK-; Site: 1; EcoRI; Site: 2; XhoI; Cloned unidirectionally. Primer: Oligo dT T-84 colonic epithelial cell line. Average insert size: 1.0 kb; Uni-ZAP XR Vector; -5' adaptor sequence: 5' CTCGACGTCTTTTCTTTT 3' "

BASE COUNT 116 a 75 c 129 g 119 t 2 others
ORIGIN

Query Match 16.3%; Score 74; DB 22; Length 441;
Best Local Similarity 100.0%; Pred. No. 1.7e-29;
Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 301 ccccttgacgactctcttgcgactcagccgctgcagcaggtgaataaacgct 360
|||||
DB 74 ccccttgacgactctcttgcgactcagccgctgcagcaggtgaataaacgct 15
|||||
QY 361 tttgtgcacaaa 374
|||||
DB 14 tttgtgcacaaa 1

RESULT 2
LOCUS AA099427/c
DEFINITION AA099427 417 bp mRNA
IMAGE:510882 3' similar to contains LTR7.13 LTR7 repetitive element
ACCESSION AA099427
VERSION AA099427.1 GI:1646199
KEYWORDS EST
SOURCE human
ORGANISM Homo sapiens

COMMENT On Jan 6, 2000 this sequence version replaced g1:6676376.

Contact: Robert Strausberg, Ph.D.

Tel: (301) 496-1550

Email: Robert.Strausberg@nih.gov

This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.lnl.gov) for further information.

Seq primer: -40UP from Gibco.

FEATURES

source

1. 399

Location/Qualifiers

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone="IMAGE:2309872"

/lab_host="DH10B"

/note="Organ: pooled; Vector: pTZ19-Pac (Pharmacia) with a modified polylinker; Site: 1; Not I; Site: 2; Eco RI; Equal amounts of plasmid DNA from three normalized libraries (fetal lung NBHL19W, testis NHT, and B-cell NCI-CGAP-GCB1) were mixed and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 3 libraries. The pools consisted of I.M.A.G.E. clones 297480-302087, 682632-687239, 726408-728711, and 729096-731359. Subtraction by Bento Soares and M. Fatima Bonaldo."

/db_xref="taxon:9606"

/clone="IMAGE:1640467"

/lab_host="DH10B"

/note="vector: pTZ19-Pac (Pharmacia) with a modified polylinker; Site: 1; Not I; Site: 2; Eco RI; 1st strand cDNA was prepared from mRNA obtained from Clontech Laboratories, Inc., and primed with a Not I - oligo(dT) primer [5']

/db_xref="taxon:9606"

/clone="IMAGE:2313651"

/lab_host="DH10B"

/note="Organ: pooled; Vector: pTZ19-Pac (Pharmacia) with a modified polylinker; Site: 1; Not I; Site: 2; Eco RI; Equal amounts of plasmid DNA from three normalized libraries (fetal lung NBHL19W, testis NHT, and B-cell NCI-CGAP-GCB1) were mixed, and ss circles were made in

BASE COUNT

ORIGIN

106 a

87 c

87 g

119 t

Query Match

Best Local Similarity 100.0%; Pred. No. 1.5e-28;

Matches 82; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 394 TGCCCTCGAAGAACGACGCTTACACCTGGTTGGCTGTGAGACCACTT 335

Qy 1 tgcctcagaagaagcagccctactgacacctgttgcctgtgtagaccactt 60

Db 403 TGCCCTCGAAGAACGACGCTTACACCTGGTTGGCTGTGAGACCACTT 344

Qy 61 tggactttcactccaact 82

Db 343 TGACCTTTTCACCTCCAAACT 313

RESULT 3

AI076014/c

LOCUS

DEFINITION

3, mRNA sequence.

ACCESSION

AI076014

VERSION

AI076014.1

KEYWORDS

EST.

ORGANISM

human.

REFERENCE

1 (bases 1 to 407)

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

IMAGE Consortium (info@image.lnl.gov) for further information.

Insert Length: 460

Std Error: 0.00

Seq primer: -40m13 fwd. Et from Amersham.

Journal

COMMENT

On Apr 7, 1998 this sequence version replaced g1:3036064.

Contact: Robert Strausberg, Ph.D.

Tel: (301) 496-1550

Email: Robert.Strausberg@nih.gov

CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D.

CDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LNL at:

www.bio.lnl.gov/db/tp/image/image.html

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www.bio.lnl.gov/db/tp/image/image.html

Insert Length: 460

Std Error: 0.00

Seq primer: -40m13 fwd. Et from Amersham.

Journal

COMMENT

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

117: gb-98813: *
118: gb-98814: *
119: gb-98815: *
120: gb-98816: *
121: gb-98817: *
122: gb-98818: *
123: gb-98819: *
124: em-98813: *

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	4.4	213	85	H33155 EST108874 R
2	21	4.4	231	33	AA963360 UI-R-EI-g
3	21	4.4	286	33	AA956831 UI-R-EI-f
4	21	4.4	412	33	AA968842 UI-R-CO-1
5	20	4.2	163	93	AA055186 CIT-HSP-2
6	20	4.2	526	37	AA283995 q66e09.x
7	19	4.0	419	47	AL042275 DKFZP434K
8	19	4.0	474	37	AI287912 gu13c03.x
9	19	4.0	506	47	AI046807 DKFZP4340
10	19	4.0	710	405	AA0482366 RPT-11-2
11	18	3.8	239	91	W85317 mF53H12.11
12	18	3.8	251	63	AA060511 UI-M-BH1-
13	18	3.8	309	93	AA0000680 CIT-HSP-2
14	18	3.8	303	30	AA702247 z184908.s
15	18	3.8	730	119	AA2061388 RPT-23-4
16	18	3.8	352	93	AA0008470 RPT-11-4
17	18	3.8	361	95	AA0200054 RPT-11-4
18	18	3.8	367	40	AA167535 v63c06.x
19	18	3.8	376	102	AA0418263 RPT-11-1
20	18	3.8	387	94	AA094468 HS-3023B
21	18	3.8	395	29	AA645356 v87912.r
22	18	3.8	420	35	AI073153 UI-R-70-m
23	18	3.8	427	110	AA0752975 HS-5226-B
24	18	3.8	429	120	B38668 HS-7048-A1-
25	18	3.8	446	105	AA0536009 RPT-11-4
26	18	3.8	449	79	AA670115 z13892 MA
27	18	3.8	458	102	AA0450033 500007C01
28	18	3.8	459	29	AA667436 v17507.r
29	18	3.8	478	95	AA0239927 CIT-HSP-2
30	18	3.8	553	36	AA1180247 EST123990
31	18	3.8	557	79	AA0631901 91282 MAR
32	18	3.8	594	95	AA0234084 HS-2057_A
33	18	3.8	603	47	AA7274271 AJ274271
34	18	3.8	614	719	AA044562 GM-UMD001
35	18	3.8	619	122	AA29665 F-RUT1PES
36	18	3.8	695	95	AA0194820 RPT-11-65
37	18	3.8	700	96	AA0309735 CIT-HSP-2
38	18	3.8	711	101	AA0330194 nbx0046N
39	18	3.8	715	95	AA0240677 CIT-HSP-2
40	18	3.8	728	47	AA7274313 AJ274313
41	18	3.8	740	102	AA0449564 500001H11
42	18	3.8	779	35	AA1096883 qb58f02.x
43	18	3.8	809	90	AA227729 7505 Human
44	17	3.6	174	92	AA219745 HSAALMEW H
45	17	3.6	183	59	AAV242584 AV242584

ALIGNMENTS

RESULT 1 H33155 213 bp mRNA EST 02-APR-1998
LOCUS H33155 EST108874 Rat PC-12 cells, NGF-treated (9 days) Rattus sp. cDNA
DEFINITION clone RBN121 5' end, mRNA sequence.

ACCESSION H33155
VERSION H33155.1 GI:978572
KEYWORDS EST
SOURCE Rattus sp.
ORGANISM Rattus sp.
REFERENCE Lee N.H., Weinstein K.G., Kirkness E.F., Earle-Hughes J.A., Puldner R.A., Marmaras S., Glodet A., Gocayne J.D., Adams M.D., Kerlavage A.R., Fraser C.M. and Venter J.C. Comparative expressed-sequence-tag analysis of differential gene expression profiles in PC-12 cells before and after nerve growth factor treatment
Proc. Natl. Acad. Sci. U.S.A. 92, 8303-8307 (1995)
JOURNAL MEDLINE 95396786
COMMENT On Jan 6, 2000 this sequence version replaced gi:667654.
Other ESTs: EST108873
Contact: Lee, NH
ATCC
The Institute for Genomic Research
9712, Medical Center Drive, Rockville, MD 20850, USA
Tel: (301)-838-3829
Fax: (301)-838-0208
Email: nhlee@tigr.org
For clone availability please contact the TIGR Database (tigrdb@tigr.org)
Seq primer: M3 Reverse.

FEATURES
source
1..213
/organism="Rattus sp."
/db_xref="ATCC (Inhost):2003416"
/db_xref="taxon:10118"
/clone="RPN121"
/clone_id="Rat PC-12 cells, NGF-treated (9 days)."
/note="Vector: pBluescript SK+, Site 1: EcoRI, Site 2: XhoI; Poly(A) + RNA was purified from 9-day NGF treated PC12 cells. cDNA was constructed using an oligo-dT primer and directionally cloned using the Lambda Zap II Vector kit by Stratagene"

BASE COUNT 73 a 43 c 44 t 2 others
ORIGIN

Query Match 4.4% Score 21; DB 85; Length 213;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 300 gaagtgaagaagaagtgaaga 320
|||||
Db 2 GAGTGAAGAAGAGTGAAGA 22

RESULT 2
LOCUS AA963360 231 bp mRNA EST 09-MAR-1998
DEFINITION UI-R-EI-ga-g-05-0-UI-s1 UI-R-EI Rattus norvegicus cDNA clone
ACCESSION AA963360
VERSION AA963360.1 GI:4278284
KEYWORDS EST
SOURCE Norway rat.
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;

REFERENCE 1 (bases 1 to 231)
AUTHORS Bonaldo, M.F., Lennon, G. and Soares, M.B.
TITLE Normalization and subtraction: two approaches to facilitate gene discovery
JOURNAL Genome Res. 6 (9), 791-806 (1996)
MEDLINE 97044477